



# Northern Transcontinental Survey

DEPARTMENT OF ECONOMIC BOTANY

Wm. M. Canby, in charge.

Wilmington, Del. .... 188

- E. affinis* var. *Coll. Vasey Colorado No. 467.* calyx spatulate-  
ous, teeth variable in number and length as in the last. Some-  
times 1 short and 2 longer sometimes but 1 or 2 very short ones.
- E. affinis* var. *brachycalyx* Coll. Canby 1871 alt. Colorado. calyx  
spatulateous, teeth more pointed, on the edge of the tube, or  
sometimes very broad and short teeth.
- E. —* meadows of Big Blackfoot river near the mountains  
(growing near *Dryas Drummondii* & *Coeqis elegans*, Hook.  
Much like your specimens, but the calyx somewhat dif-  
ferent in shape sometimes no teeth sometimes only one  
or two small ones  $\frac{1}{2}$  to 1 line long. a specimen sent with  
the others.

Notes on *G. affinis*, Griseb + vars in West. Canby 1883

No. 442 Palmer 1876 - The species as I suppose - but one specimen - calyx lobes variable generally about 3 lines & tube 5 lines long.

*G. affinis* Coll. Canby Colorado 1871 calyx teeth 5? usually nearly as long as tube but very variable in length on each on the same flower

*G. affinis*; Coll. Secumun 1874, No. 179 about as above as regards calyx but with shorter teeth

*G. affinis*; Coll. N. W. No. 468. Just like specimen of Coll. Canby

*G. affinis*; Coll. S. L. Trece Pinos Altos Mts. N. Mex. Sept. 16<sup>th</sup> 80 calyx teeth often very long & slender sometimes longer than the tube but very variable - calyx often spatulate scarious, Racem long, often 8 in dia or more, the lower flowers axillary and long pedicelled (*N. Bigelovii* here?)

*G. affinis* - Coll. Canby Copperopolis, Montana, 1882 - calyx regular - teeth variable in number & size  $\frac{1}{2}$  to  $2\frac{1}{2}$  lines long all shorter than the tube and apparently prolongations of its angles.

*G. affinis* var. = *G. heterophyllus*, Nutt. Coll. Pringle - Plains of Mendocino Cal. Aug. 5 - 1882 - calyx somewhat spatulate scarious with 4-5 long and prominent teeth often longer than the tube of the calyx.

*G. affinis* var. brachycalyx Nutt. No. 469. calyx somewhat spatulate scarious teeth  $\frac{1}{2}$  line to 3 lines long sometimes apparently only 2 to 3 in number shorter or rarely nearly as long as the tube - sometimes there appear to be no teeth.

*G. aff.* var. br. Coll. Hayden 1871 - Upper Falls of the Yellowstone calyx spatulate scarious with very short and broad teeth or even some flowers shorter and narrower.